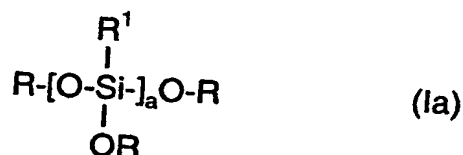


ART 34 AMDT

What is claimed is:

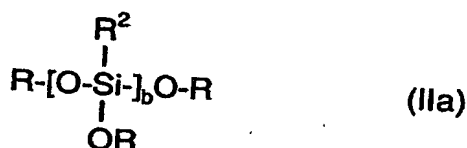
1. A composition acting as coupling agent between fillers and peroxidically crosslinking elastomers in rubber compounds, which comprises, as component
5 comprising silicon compounds, a mixture
 - a) of vinylalkoxysiloxanes with alkylalkoxysiloxanes, or
 - b) of vinylalkoxysiloxanes with phenylalkoxysiloxanes, or
 - c) of vinylalkoxysiloxanes with phenyl/alkylalkoxysiloxanes or
 - d) of acrylic or methacrylic alkoxy-siloxanes with alkylalkoxysiloxanes, or
 - 10 e) of acrylic or methacrylic alkoxy-siloxanes with phenylalkoxysiloxanes, or
 - f) of acrylic or methacrylic alkoxy-siloxanes with phenyl/alkylalkoxysiloxanes.
2. The composition as claimed in claim 1,
which comprises
15 as other non-silicon-containing components; plasticizers and/or processing aids.
3. The composition as claimed in claim 1 or 2,
which comprises
20 from 0.1 to 100% by weight of a vinyl-, acrylic-, or methacrylic-functional alkoxy-siloxane, based on all of the components present in the composition.
4. The composition as claimed in any of claims 1 to 3,
which comprises
25 from 0 to 80% by weight of the alkyl- or phenyl-functional alkoxy-siloxane, based on all of the components present in the composition.
5. The composition as claimed in any of claims 1 to 4,
which comprises
30 at least one vinylalkoxysiloxane of the general formula (Ia) or (Ib)

ART 34 AMDT



where the groups R are identical or different and R is methyl, ethyl, n-propyl, isopropyl, 2-methoxyethyl, or hydrogen, R¹ is a vinyl group, each of a and a', independently, is an integer from 2 to 50, where the siloxanes may be present in the form of linear, branched, or cyclic moieties.

6. The composition as claimed in any of claims 1 to 5, which comprises at least one alkylalkoxysiloxane of the general formula (IIa) or (IIb)



where the groups R are identical or different and R is methyl, ethyl, n-propyl, isopropyl, 2-methoxyethyl, or hydrogen, the groups R² are identical or different, and each R² is a linear, branched, or cyclic alkyl group having from 1 to 18 carbon atoms, each of b and b', independently, is an integer from 2 to 50, where the siloxanes may be present in the form of linear, branched, or cyclic moieties.

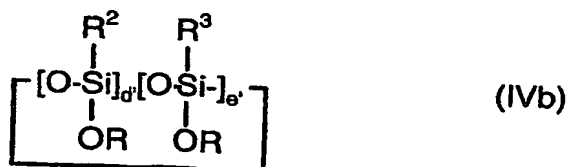
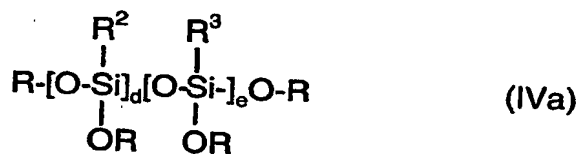
ART 34 AMDT

7. The composition as claimed in any of claims 1 to 6, which comprises at least one phenylalkoxysiloxane of the general formula (IIIa) or (IIIb)



where the groups R are identical or different and R is methyl, ethyl, n-propyl, isopropyl, 2-methoxyethyl, or hydrogen, R^3 is a phenyl group, each of c and c', independently, is an integer from 2 to 50, where the siloxanes may be present in the form of linear, branched, or cyclic moieties.

8. The composition as claimed in any of claims 1 to 7, which comprises at least one alkylphenylalkoxysiloxane of the general formula (IVa) or (IVb)



where the groups R are identical or different and R is methyl, ethyl, n-propyl, isopropyl, 2-methoxyethyl, or hydrogen, the R^2 groups are identical or different, each R^2 being a linear, branched, or cyclic alkyl group having

from 1 to 18 carbon atoms, R^3 is a phenyl group, each of d, d', e and e', independently, is an integer from 1 to 35 and complies with the provisos that $1 < (d+e) < 50$ and $1 < (d'+e') < 50$, where the siloxanes may be present in the form of linear, branched, or cyclic moieties.

9. The composition as claimed in any of claims 1 to 8, which comprises at least one acrylic or methacrylic alkoxysiloxane of the general formula (Va) or (Vb)



where the groups R are identical or different and R is methyl, ethyl, n-propyl, isopropyl, 2-methoxyethyl, or hydrogen, the groups R^4 are identical or different, and R^4 is an acrylic or methacrylic group, each of f and f', independently, is an integer from 2 to 50, where the siloxanes may be present in the form of linear, branched, or cyclic moieties.

10. The composition as claimed in any of claims 1 to 9, which has been applied to a carrier.
11. The composition as claimed in claim 10, wherein the carrier material has been selected from the series porous polymer, carbon black, wax, silica, and calcium silicate.

AMT 34 ANDT

12. The use of the composition as claimed in any of claims 1 to 11 as coupling agent in filled and peroxidically crosslinking rubber compounds.
- 5 13. A filled and peroxidically crosslinking rubber compound which comprises a composition as claimed in any of claims 1 to 11.
- 10 14. The rubber compound as claimed in claim 13, which comprises a content of elastomer from the series ethylene-propylene rubber (EPR), ethylene-propylene-diene rubber (EPDM), styrene-butadiene rubber (SBR), natural rubber (NR), acrylate copolymer rubber (ACM), acrylonitrile-butadiene rubber (NBR), polybutadiene rubber (BR).
- 15 15. The rubber compound as claimed in claim 13 or 14, which comprises a content of filler from the series silicatic or organic fillers.
- 20 16. The rubber compound as claimed in claim 15, which comprises a content of filler from the series kaolin, silica, quartz, crystobalite, talc, montmorillonite, wollastonite, mica, calcium carbonate, chalk, dolomite, aluminum hydroxide, magnesium hydroxide, titanium dioxide, cellulose, flax, and sisal.
17. An item obtained during the processing of rubber compounds as claimed in any of claims 12 to 16.